

# COURSE DETAIL

## SIGNALS AND SYSTEMS I

**Country**

South Africa

**Host Institution**

University of Cape Town

**Program(s)**

University of Cape Town

**UCEAP Course Level**

Upper Division

**UCEAP Subject Area(s)**

Electrical Engineering

**UCEAP Course Number**

115

**UCEAP Course Suffix****UCEAP Official Title**

SIGNALS AND SYSTEMS I

**UCEAP Transcript Title**

SIGNALS & SYSTEMS I

**UCEAP Quarter Units**

5.50

**UCEAP Semester Units**

3.70

## Course Description

This course provides the basic tools required for understanding linear systems, and the effect that such systems have on deterministic signals. The course covers linear time-invariant systems in terms of input-output relationships, using both time and frequency domain methods and includes concepts related to signal representation, linear convolution, Fourier analysis, sampling of continuous-time signals, and Laplace transforms.

## Language(s) of Instruction

English

## Host Institution Course Number

EEE2047S

## Host Institution Course Title

SIGNALS AND SYSTEMS I

## Host Institution Course Details

<https://www.uct.ac.za/sites/default/files/media/documents/uct-handbook-07a-2025...>

## Host Institution Campus

University of Cape Town

## Host Institution Faculty

Engineering and the Built Environment

## Host Institution Degree

## Host Institution Department

Electrical Engineering

## Course Last Reviewed

2025-2026

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